

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1996
Date Received: January 11, 1996
Project: Metro Self Monitor, PO #M51907
Date Samples Extracted: January 15, 1996
Date Extracts Analyzed: January 16, 1996

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, AND ZINC**

Samples Processed Using Method 3005

Samples Analyzed Using Method 6010

Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M51907	0.69	0.78	0.54	0.06
Method Blank	<0.05	<0.05	<0.05	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1996
 Date Received: January 11, 1996
 Project: Metro Self Monitor, PO #M51907

**QUALITY ASSURANCE RESULTS
 FOR CHROMIUM, COPPER, NICKEL, AND ZINC
 Samples Processed Using Method 3005
 Samples Analyzed Using Method 6010**

Laboratory Code: 65734 (Duplicate)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>Relative Percent Difference</u>	<u>Acceptance Criteria</u>
Chromium	mg/L (ppm)	0.69	0.71	3	0-20
Copper	mg/L (ppm)	0.78	0.77	1	0-20
Nickel	mg/L (ppm)	0.54	0.56	4	0-20
Zinc	mg/L (ppm)	0.06	0.07	15 a	0-20

Laboratory Code: 65734 (Matrix Spike)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>Sample Result</u>	<u>% Recovery MS</u>	<u>MSD</u>	<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
Chromium	mg/L (ppm)	2.5	0.69	99	92	80-120	7
Copper	mg/L (ppm)	2.5	0.78	95	91	80-120	4
Nickel	mg/L (ppm)	5.0	0.54	98	94	80-120	4
Zinc	mg/L (ppm)	2.5	0.06	99	97	80-120	2

Laboratory Code: Spike Blank

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>% Recovery MS</u>	<u>Acceptance Criteria</u>
Chromium	mg/L (ppm)	2.5	98	80-120
Copper	mg/L (ppm)	2.5	97	80-120
Nickel	mg/L (ppm)	5.0	98	80-120
Zinc	mg/L (ppm)	2.5	101	80-120

a - The analyte was detected at a level less than five times the detection limit. The RPD results may not provide reliable information on the variability of the analysis.

SAMPLE CHAIN OF CUSTODY

KNJ AI
1-11-96
200

Date 1-11-96

SITE NO.

PROJECT NAME

PURCHASE ORDER #

7238

METRO self monitor

m 51907

SAMPLERS (signature)

PROJECT LOCATION

Amos S. J.

3200 6th Ave S,

REMARKS

SAMPLE DISPOSAL INFORMATION

☐ Dispose after 30 days
☒ Return Samples
☐ Call for Instructions

[illegible]

SIGNATURE

PRINT NAME

COMPANY

Date _____

Time

Requisitioned by:

[Handwritten signature]

GERARD Thompson

A. C. W.

1-1-86

1:01

Received by:

Dieth Chan

Σ. Οβόρη

F & B, Inc.

11/11/96

1:04 PM

Relinquished by:

Received by:

FRIEDMAN & BRUYA, INC.
ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

January 17, 1996

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on January 11, 1996 from your Metro Self Monitor, PO #M51907 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

A handwritten signature in black ink, appearing to read "Kurt Johnson", written over a horizontal line.

Kurt Johnson
Chemist

keh
Enclosures
FAX: 382-7335
ACU0117R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

January 17, 1996

INVOICE # 96ACU0117-1
DUPLICATE COPY

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M51907: Results of testing requested by
Gerry Thompson, Project Manager for material submitted on January 11,
1996.

1 water sample analyzed for Chromium,
Copper, Nickel, and Zinc @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00